

Name _____

Date _____

Electron Configuration

Electrons are found in the electron cloud that surrounds the nucleus of an atom. The electron cloud is separated into principal energy level (1,2,3,...), sublevels (s, p, d, f). In an electron configuration, the electrons of an atom are described by identifying the energy level of each electron and its sublevel.

The complete electron configuration of an atom is shown by writing symbols for all of the occupied sublevels in sequence, starting from the lowest energy level.

Example: Electron Configuration for Magnesium



Write the complete electron configuration for each of the following elements.

1. Lithium
2. Oxygen
3. Neon
4. Carbon
5. Chlorine
6. Calcium
7. Aluminum
8. Phosphorus
9. Sulfur
10. Hydrogen